

6/14

mdt of 3-3-04

Amendments to the Claims

**1-12. (Cancelled)**

**13. (Currently amended)** An isolated peptide selected from the group consisting of  
(a) the peptide of SEQ ID No. 1, said peptide having a calcium channel modulatory function, and  
(b) functional variants thereof, said functional variants (i) comprising at least 6 amino acid residues, (ii) having at least 70% homology with all of the peptide of SEQ. ID No. 1 and (iii) retaining said calcium channel modulatory function of the peptide of SEQ. ID No. 1 ~~and having no cholinesterase activity.~~

**14-15. (Cancelled)**

**16. (Previously presented)** A probe consisting of the peptide of claim 13, labeled with a signal moiety, or immobilized on a solid support.

**17-29. (Cancelled)**

**30. (Previously presented)** The peptide as claimed in claim 13, which peptide is a fragment of acetylcholinesterase.

**31. (Previously presented)** The peptide as claimed in claim 13, which peptide has been chemically synthesized.

**32. (Previously presented)** The peptide as claimed in claim 13, which is the peptide of SEQ. ID No. 1.

U22-535-548

**33. (Previously presented)** A method for obtaining an antibody comprising using the peptide according to any one of claims 13, 30, 31 and 32 as an antigen to obtain said antibody.

**34. (Withdrawn)** A method of screening comprising using the peptide according to any one of claims 13, 30, 31 and 32 to screen for a compound which inhibits the activity of said peptide as a calcium channel modulator.

**35. (Withdrawn)** A method of identifying a compound which inhibits calcium channel modulation, said method comprising using the screening method according to claim 34 to screen for and identify said compound.

**36. (Withdrawn)** A method of preparing a composition which inhibits calcium channel modulation, said method comprising incorporating the compound identified by the method according to claim 35, into a composition for human administration.

**37. (Withdrawn)** A method of inhibiting calcium channel modulation comprising administering an effective amount of the compound identified by the method according to claim 35.

**38. (Withdrawn)** A method of inhibiting calcium channel modulation comprising administering an effective amount of the composition prepared by the method according to claim 36.

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